

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

INTERNATIONAL A-LEVEL GEOGRAPHY

Paper 5 Fieldwork and Geographical Skills

Friday 17 January 2025 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- All working must be shown.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this answer book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
TOTAL	



Section A

Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section A**.

0	1
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Outline how sampling could be used in a geographical enquiry.

[4 marks]

Extra space

4

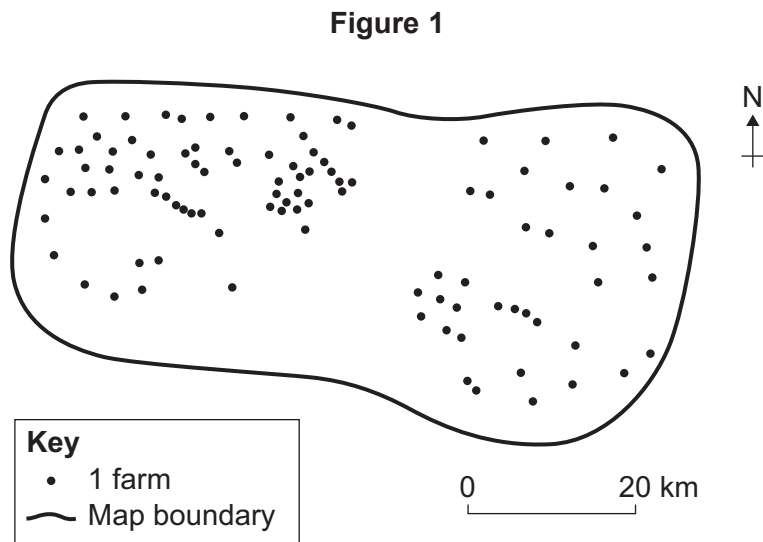


0 2

A student was studying the distribution of farms in a part of northern England.

The student identified the farms and then used the data to produce the dot map shown in **Figure 1**.

Figure 1 – a dot map showing the distribution of farms in a part of northern England.



0 2 . 1

State **one** advantage and **one** disadvantage of using dot maps to show information.
[2 marks]

Advantage _____

Disadvantage _____

Question 2 continues on the next page

Turn over ►

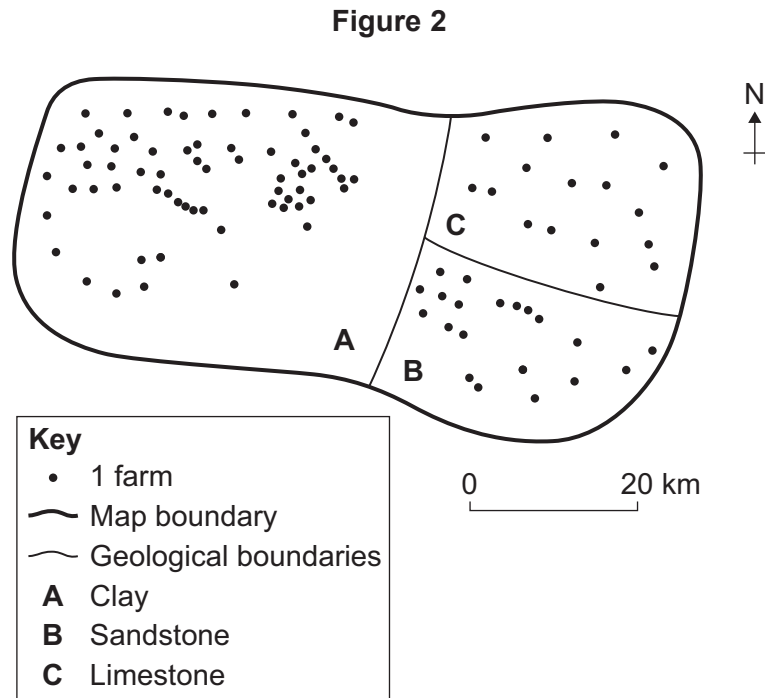


0 2 . 2

The student thought that rock type had a significant influence on the number of farms present across this part of northern England.

They gathered data to test this idea by looking at a geological (rock type) map.

Figure 2 shows the geological areas (labelled **A**, **B** and **C**) and the dot distribution of farms.



The student observed that:

Clay covers 50% of the map and there are 64 farms.

Sandstone covers 25% of the map and there are 20 farms.

Limestone covers 25% of the map and there are 16 farms.

The student wanted to test the hypothesis that rock type has a significant influence on the number of farms.

They performed a Chi-square statistical analysis on the data.

The student gave two hypotheses (H) in this study.

H_0 : Rock type has no significant influence on the number of farms.

H_1 : Rock type has a significant influence on the number of farms.

A Chi-square calculation has been started in **Table 1**.



Complete **Table 1** and calculate the Chi-square value for this study to two decimal places.

[4 marks]

Table 1

	Clay	Sandstone	Limestone	Total
Number of farms Observed Frequency (O)	64	20	16	100
Number of farms Expected Frequency (E)	50	25	25	100
Observed (O) – Expected (E)		–5	–9	
(O – E) ²	196		81	
$\frac{(O - E)^2}{E}$	3.92	1.00		

Formula for calculating Chi-square = $\sum \frac{(O - E)^2}{E}$

Space for working:

Chi-square value for this investigation = _____

Question 2 continues on the next page

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0 2 . 3

Table 2 shows an extract from the table of critical values for Chi-square.

Table 2

	Levels of significance	
	0.05	0.01
Critical values	5.99	9.21

Use the information contained in **Table 2** to interpret the calculated Chi-square result for this study.

[2 marks]

0 2 . 4

In the study into the influence of rock type on the number of farms, secondary sources were used to gather the data.

Explain the benefits of using secondary sources of data in a geographical enquiry.

[6 marks]



Extra space _____

14

Turn over for the next question

Turn over ►



0 3

A student wanted to investigate if annual rainfall amounts were changing over time in their country.

They analysed annual rainfall data from two weather stations (Aceh and Bali) in Indonesia as part of their investigation.

Table 3 shows annual rainfall data for the two weather stations for the period 2005 to 2017. The information was obtained from a database of weather statistics.

Table 3

Year	Annual rainfall (mm)	
	Aceh	Bali
2005	710	1080
2006	506	1096
2007	980	1985
2008	1200	1791
2009	1577	1702
2010	1986	2525
2011	1286	1900
2012	1098	1850
2013	1623	2155
2014	2264	1640
2015	1535	1134
2016	2509	2489
2017	2398	2247

Table 4 shows the range for the annual rainfall data shown in **Table 3**.

Table 4

Weather station	Aceh	Bali
Range (mm)	2003	

0 3 . 1

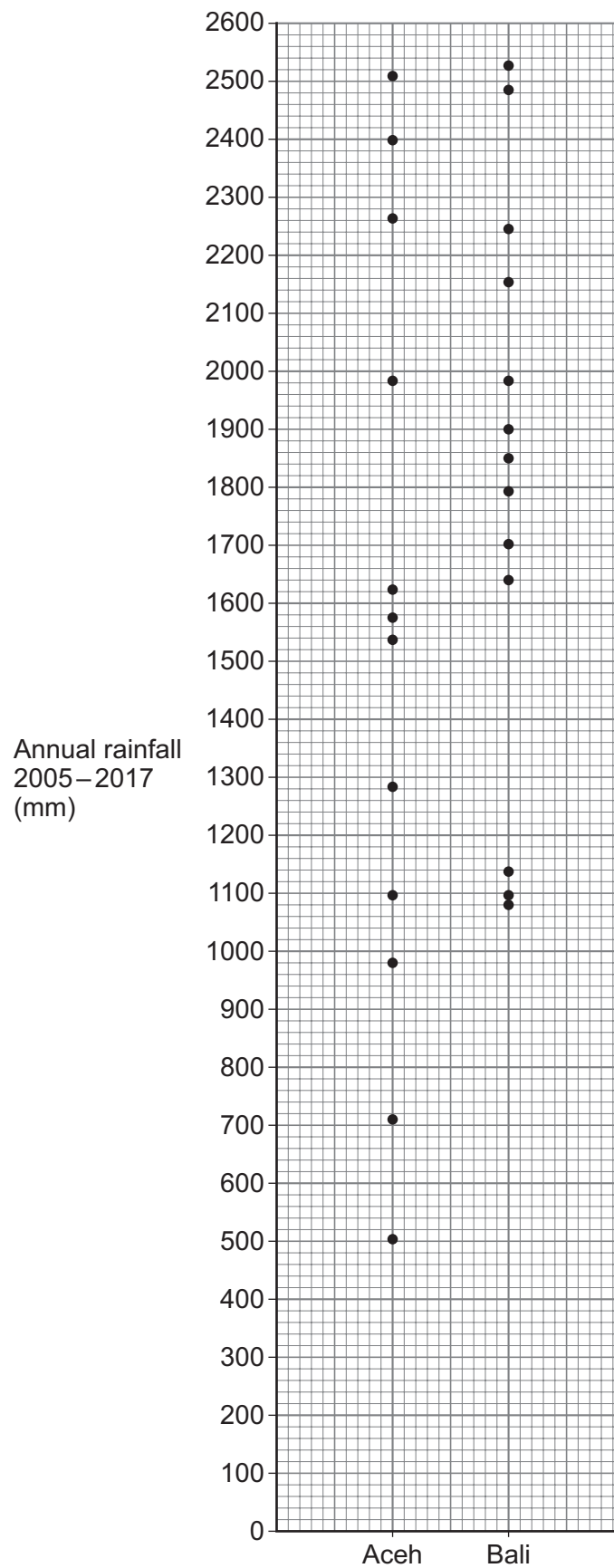
Complete **Table 4** by calculating the annual rainfall range for Bali weather station.

[1 mark]**0 3 . 2**

Figure 3 shows the annual rainfall data for the two weather stations on a dispersion diagram.

Complete **Figure 3** by adding the annual rainfall value for Aceh in 2008, shown in **Table 3**.

[1 mark]

Figure 3**Question 3 continues on the next page****Turn over ►**

0 3 . 3 Table 5 shows some statistics for the two weather stations.

Table 5

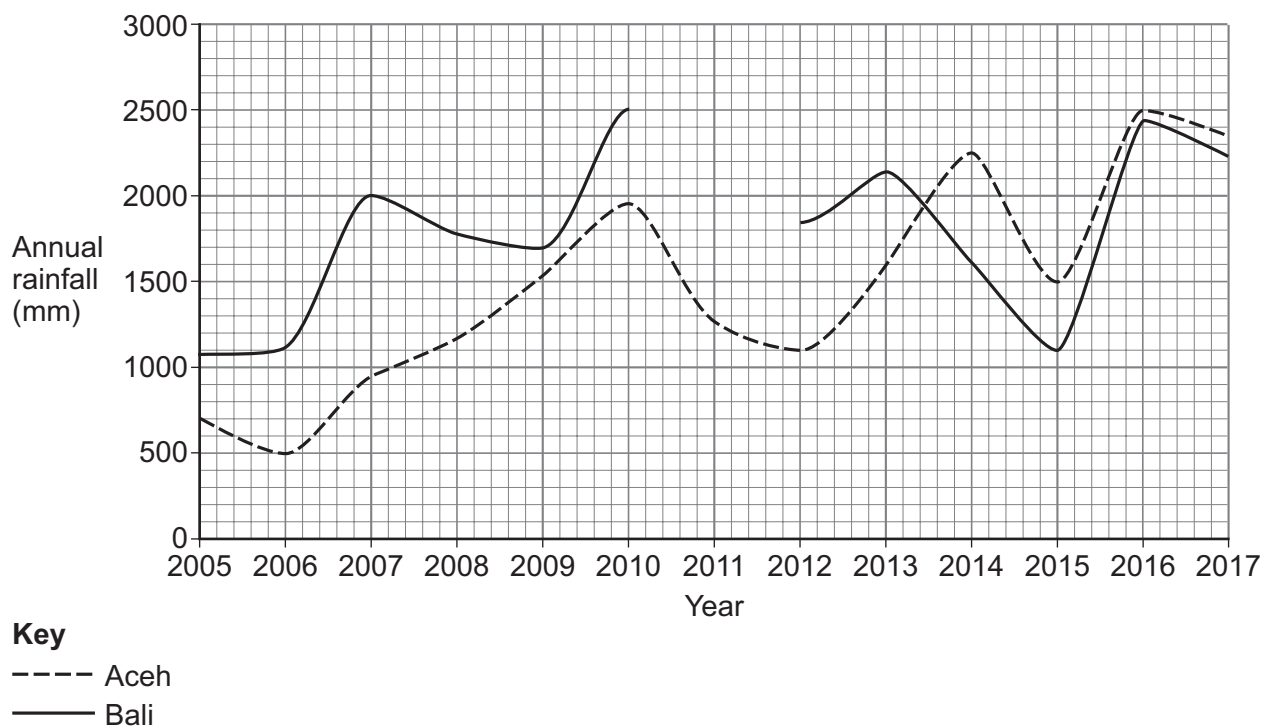
Rainfall statistic mm	Aceh	Bali
Upper quartile	2125	2201
Lower quartile	1039	1387
Inter-quartile range	1086	
Median	1535	

Use **Figure 3** and **Table 3** to complete **Table 5**.

[2 marks]

0 3 . 4 **Figure 4** is a comparative line graph showing the annual rainfall for the two weather stations from 2005–2017.

Figure 4



Complete **Figure 4** using the 2011 data for Bali shown in **Table 3**.

[2 marks]



Explain why the methods used in **Figure 3** (the dispersion diagram) and **Figure 4** (the comparative line graph) are useful methods of data presentation in this investigation.

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Question 3 continues on the next page

From the information shown in **Table 3**, **Table 4**, **Table 5**, **Figure 3** and **Figure 4**, the student concluded that rainfall totals in Indonesia were changing.

[6 marks]

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[9 marks]

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END OF SECTION A

Turn over for Section B

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You must answer **all** questions in **Section B**.

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0 5 . 2

Outline the conclusions of your enquiry and suggest how the enquiry could be used and/or taken forward in the future.

[9 marks]

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END OF QUESTIONS



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24



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